

MINIATURE DIAPHRAGM PUMPS FOR GASES

V100 Black Edition - 200 ml/min
Long life-time up to 35000 hours

V100 Series



With dimensions of just 15 x 15 x 25 mm and an operating life of over 35000 hours, this intelligent diaphragm pump is a compact solution for applications in medical technology or gas analysis. Because the pump can also be operated with a battery, solutions in small portable devices are possible.

With an integrated ARM processor this pump offers independent control options, as well as the reduction of external components to make systems even smarter and more compact. The pump can be paired with an additional Wi-Fi module, which opens up new possibilities e.g. IoT applications.

SPECIFICATIONS

	V100
Flow rate (max.)	200 ml/min
Vacuum pressure (max.)	300 mbar
Electrical interface	5 wires cable (Molex 53047 picoblade)
Communication type	Analog Flow Control I ² C-Interface
Rated voltage	5 VDC 12 VDC
Life-time	2000 - 35000 hours

Intelligent diaphragm pumps - BLACK Edition

Thanks to the integrated electronics, the lifespan of the BLACK Edition is **over 35000 operating hours**. It also comes with a **3-year warranty**, combined with new cost saving control options. The pump electronics transfer the operating voltage into piston stroke movements with flow range depending on the frequency.

The integrated interface makes it possible to read data and set control signals for the micropump. This enables very precise regulation of the pump and the possibility of saving additional electronics.

Examples:

- Calibrated flow rate
- Constant frequency regardless of back pressure
- Constant flow rate with fluctuating operating voltage
- Monitoring of pressure / vacuum

